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SPALDING  
ALL STEEL APPARATUS  
FOR THE PLAYGROUND



CATALOG X-3

# SPALDING ALL-STEEL APPARATUS FOR THE PLAYGROUND

Long  
City  
1917



Courtesy Los Angeles Playground Commission.

"Happy hearts and happy faces, happy play in grassy places;  
That was how in ancient ages, children grew to kings and sages."

---

A. G. SPALDING & BROS., INC., CHICOPEE, MASS.

PACIFIC COAST BRANCH: 156 Geary Street, San Francisco, Cal.



CHICOPEE FACTORY OF A. G. SPALDING & BROS.

The Largest Plant of its Kind in the World—500,000 Square Feet of Floor Space.

"If a man preach a better sermon, write a better book, or build a better mouse trap than his neighbor, tho' he hide himself in the wilderness, the world will make a beaten path to his door."



## FOREWORD

In offering our latest catalogue of Playground Apparatus, we wish to state that it stands for an earnest effort on our part to perfect a line of manufacture abreast with the spirit of the times, and in every way capable of fulfilling its needs.

Many years' experience are behind the production illustrated herein. The most thoroughly equipped and largest plant of its kind in the world makes possible the highest grade apparatus at the lowest cost of manufacture. Many valuable thoughts and ideas of some of the foremost playground organizers of the country are manifested in the product represented. We trust that those who have helped us will find in the refinement of manufacture offered a keen appreciation of their valuable patronage and kindly criticism.

To all those contemplating the purchase of Playground Apparatus, we solicit a careful comparison of quality. The quality of apparatus selected is a factor in the success of the playground.

SPALDING ALL-STEEL APPARATUS insures safety to the users —

Saves the necessity of constant supervision of parts —

Gives freedom from worry —

Adds valuable time to the day's programme —

Does not "eat its head off" in repairs —

Gives by its durability many added years of service —

Proves itself a valuable investment.

We will be glad to prepare plans and submit suggestions for Private, Schoolyard or Public Playground equipments. Our experience, knowledge and facilities are freely offered to anyone interested.

Every piece of our apparatus is manufactured and sold under the "Spalding Guarantee," and the "Spalding Guarantee" for thirty years has meant one thing — *satisfaction to the customer.*

A. G. SPALDING & BROS., INC., CHICOPEE, MASS.

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## SPALDING ECONOMY FRAMES

We are almost ready to believe that the gymnasium frames here illustrated present the final evolution in designing; they epitomize a wide experience through many years of experiment and endeavor.

All motion is parallel, thereby lessening chances of accident through one piece of apparatus interfering with another.

The maximum working efficiency per square foot is effected.

Superfluous pipe is discarded, and all heavy overhead pipe supports apparatus and is not used merely to tie sections together.

The number of fittings used is reduced to the minimum, and they are of such special design as to cheapen materially the cost of making joints.

The assortment shown is meant to cover the demand for all types under all conditions. It will be found desirable to adhere as closely as possible to stock designs. Where required, however, we will be pleased to furnish plans of special frames on request, and all work attendant thereto will be done without charge.

Patents have been applied for, embracing the new features of construction, and our rights will be thoroughly protected.

**CONCRETE** In order to provide the maximum of stability to frames and apparatus, we advise the use of concrete bases. Holes should be dug six inches deeper than required and the bottom paved with a flat stone or six inches of concrete. Diameter of holes should be about two feet. After setting parts, fill in and tamp down a concrete mixture made of one part Portland cement, three parts clean, sharp sand, and five parts rock (average size one cubic inch). Provide watchman to guard against disturbance while mixture is hardening.

**PIPE** We recommend standard steel or wrought iron pipe, galvanized, of sizes specified in our lists. Painted frames are not so durably finished. Diameters of pipe are given as current with the trade, such diameters approximating the interior and not the exterior measurements. We maintain a stock of clamps and various fittings for apparatus suitable to these sizes of pipe. The following are weights of standard wrought iron pipe: 2-inch, 3.61 lbs. per foot; 3-inch, 7.54 lbs. per foot; 4-inch, 10.66 lbs. per foot.

**SPECIAL NOTE** In quoting prices of gymnasium outfits, we limit the specifications and prices to that particular part of the playground equipment. All playgrounds call for miscellaneous items, such as Giant Strides, See-Saws, Swings, Horses, Bucks, Parallels, Jump Boards, Slides, various game implements, etc., in greater or less variety. We are always glad to make up suggested lists upon request. To do this intelligently, we should receive full information on the character of playground and conditions.



**TRAVELING RING OUTFIT** "Traveling the Rings" is a popular exercise among all playground children. It is remarkable to see with what enthusiasm, girls especially, take to this form of amusement—how adept they become—what endurance they develop.

All playgrounds cannot afford the usual frame with its complete outfit. Many haven't the space. It has seemed to us desirable therefore, that we divorce the Traveling Ring Set for certain conditions and present it in this form, wherein Spalding perfection of detail obtains throughout.

This is an efficient playground outfit, accommodating a number of children, one making way for another continuously, so that a merry-go-round of motion prevails.

Rings are steel forgings, jacketed with aluminum—light and rust proof—and hung by steel chains from ball bearing fixtures that are drop-forged. Balls, ball seats and axles are all case hardened and ground. See page 32.

No. A-710 Traveling Ring Outfit, no Pipe, **\$52.00**

Outfit comprises: 6 No. X-126 Ball Bearing Aluminum Traveling Rings; 2 F-53 End Spread Fittings; 1 F-52 Center Spread Fitting; 6 F-32 Base Flanges.

No. X-28, Incline Board, extra, **\$10.00.** (See page 35.)

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weights: Traveling Ring Outfit, 200 lbs.; Incline Board, 70 lbs.

PIPE REQUIRED—2 pieces 3-in. pipe, each 20 ft. long, no threads; 6 pieces 2-in. pipe, each 21 ft. long, no threads.





### PRIVATE PLAYGROUND OUTFIT

No. A-941. Height, 14 feet. Complete except pipe, **\$110.00**

Price f.o.b. Chicopee, Mass., and subject to discount.  
Shipping Weight (Apparatus and Fittings), 550 lbs.

PIPE REQUIRED: 3 pieces 3-in. pipe, each 15 feet long, no threads; 3 pieces 2-in. pipe, each 17 feet long, no threads; 10 pieces 2-in. pipe, each 18 feet long, no threads.

### APPARATUS

- 2 Drop Forged Steel Ball Bearing Swings.
- 2 Steel Horizontal Bars.
- 1 Drop Forged Steel Flexible Ladder.
- 1 Formed Steel Climbing Pole.
- 1 Pair Ball Bearing Aluminum Flying Rings.

### FITTINGS

- 2 F-53 End Spread Fittings.
- 2 F-9 Combination Fittings.
- 1 F-3 Single Tee.
- 13 F-32 Base Flanges.
- 3 F-30 Crown Plates.



### SCHOOLYARD GYMNASIUM OUTFIT

No. A-960. Height, 16 feet. Complete except pipe, **\$130.00**

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight (Apparatus and Fittings), 650 lbs.

PIPE REQUIRED: 3 pieces 3-in. pipe, each 15 feet long, no threads; 5 pieces 3-in. pipe, each 19 feet long, no threads; 8 pieces 2-in. pipe, each 20 feet long, threaded one end.

### APPARATUS

- 2 Pairs Ball Bearing Aluminum Flying Rings.
- 2 Steel Horizontal Bars.
- 2 Drop Forged Steel Flexible Ladders.
- 2 Formed Steel Climbing Poles.

### FITTINGS

- 2 F-2 Single Elbows.
- 3 F-1 Single Tees.
- 4 F-12 Brace-Clamps.
- 8 F-32 Base Flanges.
- 5 F-33 Base Flanges.
- 5 F-28 Crown Plates.



### PARK "PLAY STATION"

**OUTFIT X-1100** An appropriate outfit, to be used as its title would indicate. Placed here and there in the large parks, at points accessible to the small children, it will do much that is good for the child and increase the general public use of the parks; one more unit to assist in bringing about a proper appreciation of a beautiful and useful park system. The apparatus is selected and arranged with care, and *built for the purpose.*

Apparatus and Fittings, no pipe, **\$275.00**

Price f.o.b. Chicopee, Mass., and subject to discount. Shipping weight, 1,800 lbs.

#### APPARATUS

- 2 Slides, Platform, Rails and Stairway.
- 4 Ball-Bearing Steel-Link Swings.
- 2 See-Saw Boards, with Handles.

#### FITTINGS

- 2 F-14 Single Ells. 10 F-32 Base Flanges.
- 2 F-14M Single Ells. 1 F-33 Base Flange.
- 2 F-27M Double Ells. 1 Threaded Flange.
- 2 F-46 Brace Clamps. 8 F-30 Crown Plates.
- 2 F-23 Clamp Tees. 1 F-28 Crown Plate.
- 2 F-35 Pipe Plugs.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 10 ft. long, no threads; 1 piece 3-in. pipe, 20 ft. long, no threads; 1 piece 3-in. pipe, 9 ft. 10 in. long, threaded one end; 2 pieces 3-in. pipe, each 3 ft. 4 in. long, no threads; 6 pieces 2-in. pipe, each 13 ft. long, no threads; 2 pieces 2-in. pipe each 14 ft. long, threaded one end; 2 pieces 2-in. pipe, each 5 ft. long, no threads.



SCHOOLYARD OUTFIT A-1205 for boys represents a careful selection of popular apparatus grouped to form a good equipment for small playground or schoolyard at moderate cost.

1 Long Steel-Lined Slide with Steps and Guard Rails.

See details of construction on page 44.

1 Pair Formed Steel Inclined Poles.

1 Formed Steel Inclined Ladder.

1 Pair No. A. H. Guard Rails.

Combination E. See page 27.

2 Drop Forged Steel Flexible Ladders with Anchors.

2 Steel Climbing Poles with Anchors.

2 Pairs Ball Bearing Aluminum Flying Rings.

2 Steel Horizontal Bars.

#### FITTINGS

5 F-1 Single Tees, 3 in. x 3 in.

2 F-12 Brace Clamps, straight plugs.

4 F-32 Base Flanges for 2-in. Braces.

5 F-33 Base Flanges for 3-in. Uprights.

2 F-36 Plugs for 3-in. Pipe.

5 F-28 Crown Plates for 3-in. Uprights.

No. A-1205. Height, 14 feet. Complete except pipe, \$320.00.

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight (Apparatus and Fittings), 1,800 lbs.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 16 feet 6 inches long, no threads; 1 piece 3-in. pipe, 15 feet long, no threads; 5 pieces 3-in. pipe, each 17 feet long, no threads; 4 pieces 2-in. pipe, each 17 feet 6 inches long, threaded one end.



SCHOOLYARD OUTFIT A-1305 is a typical assortment of apparatus for girls' use, economically arranged; suitable for small public playground or schoolyard.

1 Long Steel-Lined Slide with Steps  
and Guard Rails.

See detail of construction on page 44.

1 Pair Formed Steel Incline Poles.

1 Formed Steel Inclined Ladder.

1 Pair No. A. H. Guard Rails.

Combination E. See page 27

2 Drop Forged Steel Flexible Ladders  
with Anchors

2 Formed Steel Climbing Poles with  
Anchors

2 Pairs Ball Bearing Aluminum Flying  
Rings.

2 Formed Steel Teeter Ladders

#### FITTINGS:

- 4 F-1 Single Tees.
- 3 F-22 Tee Clamps.
- 2 F-12 Brace Clamps.
- 4 F-32 Base Flanges.
- 5 F-33 Base Flanges.
- 2 F-36 Pipe Plugs.
- 5 F-28 Crown Plates.

No. A-1305. Height, 14 feet. Complete except pipe, \$360.00. Price f.o.b. Chicopee, Mass., and subject to discount.  
Shipping Weight (Apparatus and Fittings), 1,800 lbs.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 18 feet 6 inches long, no threads; 1 piece 3-in. pipe, 15 feet long, no threads; 1 piece 3-in. pipe, 14 feet 7 inches long, no threads, drilled to sketch; 4 pieces 3-in. pipe, each 17 feet long, no threads; 1 piece 3-in. pipe, 8 feet long, no threads; 4 pieces 2-in. pipe, each 17 feet 6 inches long, threaded one end.





ALL-STEEL GYMNASIUM OUTFIT X-1400

DIMENSIONS AT TOP: . . . 40 FEET LONG x 52 FEET WIDE  
DIMENSIONS AT GROUND: 60 FEET LONG x 67 FEET WIDE



OUTFIT X-1400 was designed for an institution playground where a certain variety of the popular apparatus was required at the lowest obtainable cost—quality attendant. The frame is 14 feet high, supported and braced entirely by 2-inch pipe. The top pipes only are of 3-inch pipe. Under certain conditions it represents an ideal outfit.

### SPECIFICATIONS

#### APPARATUS

- 1 Long Steel-Lined Chute.
- 1 Formed Steel Vertical Ladder.
- 1 Pair No. A. H. Guard Rails.  
Combination A. See page 28
- 1 Pair Formed Steel Incline Poles.
- 1 Formed Steel Vertical Ladder.
- 1 Pair No. A. H. Guard Rails.  
Combination B. See page 26
- 2 Drop Forged Steel Flexible Ladders.
- 2 Formed Steel Climbing Poles.
- 2 Pairs Ball Bearing Flying Rings.
- 6 Ball Bearing Traveling Rings.
- 2 Steel Horizontal Bars.

#### FITTINGS

- 4 F-53 End Spread Fittings.
- 2 F-9 Combination Center Fittings.
- 1 F-6 Center Run for Traveling Rings.
- 3 F-3 Single Tees, 3 in. x 2 in.
- 4 F-12 Brace Clamps with offset plugs.
- 21 F-32 Base Flanges for 2-inch Uprights.
- 5 F-30 Crown Plates for 2-inch Uprights.

No. X-1400. Complete except pipe, **\$400.00.**

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight (Apparatus and Fittings), 1,800 lbs.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 20 feet long, no threads; 2 pieces 3-in. pipe, each 18 feet 6 in. long, no threads; 1 piece 3-in. pipe, 15 feet long, no threads; 16 pieces 2-in. pipe, each 18 feet long, no threads; 5 pieces 2-in. pipe, each 17 feet long, no threads; 4 pieces 2-in. pipe, each 3 feet 4 inches long, threaded both ends.

OUTFIT X-1405 Similar in general design to Outfit X-1400, except that XA Slide, as shown on Pages 10 and 11, is used instead of Slide Combination A.

No. X-1405. Complete except pipe, **\$383.00.**

Price f.o.b. Chicopee, Mass., and subject to discount.

Construction plans in detail supplied with each outfit.



ALL-STEEL GYMNASIUM OUTFIT X-1500

DIMENSIONS AT TOP: . . . 40 FEET LONG x 45 FEET WIDE  
DIMENSIONS AT GROUND: 83 FEET LONG x 59 FEET WIDE

OUTFIT X-1500 for boys carries the more essential features of equipment, and, at the price, probably represents the maximum in efficient working parts. It will amply accommodate and keep occupied a goodly number of boys, meeting the playground needs of the smaller cities. See pages 5 and 51.

APPARATUS	SPECIFICATIONS	FITTINGS
1 Long Steel-Lined Chute.		2 F-5 End Runs for Traveling Rings.
1 Formed Steel Vertical Ladder.		1 F-6 Center Run for Traveling.
1 Pair No. A. H. Guard Rails.		3 F-1 Single Tees, 3 in. x 3 in.
Combination A. See page 28		6 F-2 Single Elbows, 3 in. x 3 in.
1 Pair Formed Steel Inclined Poles.		4 F-11 Brace Clamps with straight plugs.
1 Formed Steel Vertical Ladder.		2 F-12 Brace Clamps with straight plugs.
1 Pair No. A. H. Guard Rails.		2 F-47 Brace Clamps with straight plugs.
Combination B. See page 26		4 F-11 Brace Clamps with offset plugs.
2 Formed Steel Inclined Ladders.		6 F-12 Brace Clamps with offset plugs.
2 Formed Steel Vertical Sliding Poles.		14 F-32 Base Flanges for 2-inch Braces.
2 Pairs No. I. H. Guard Rails.		9 F-33 Base Flanges for 3-inch Uprights.
Combination C. See page 26		9 F-28 Crown Plates for 3-inch Uprights.
1 Set of Six Ball Bearing Aluminum Traveling Rings.		
2 Pairs Ball Bearing Aluminum Flying Rings.		
2 Steel Horizontal Bars.		

No. X-1500. Height, 16 feet. Complete except pipe, \$490.00. Price f.o.b. Chicopee, Mass., and subject to discount.  
Shipping Weight (Apparatus and Fittings), 2,700 lbs.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 20 feet long, no threads; 5 pieces 3-in. pipe, each 15 feet long, no threads; 9 pieces 3-in. pipe, each 19 feet long, no threads; 14 pieces 2-in. pipe, each 20 feet long, threaded one end; 4 pieces 2-in. pipe, each 5 feet long, threaded both ends; 4 pieces 2-in. pipe, each 3 feet 4 inches long, threaded both ends.

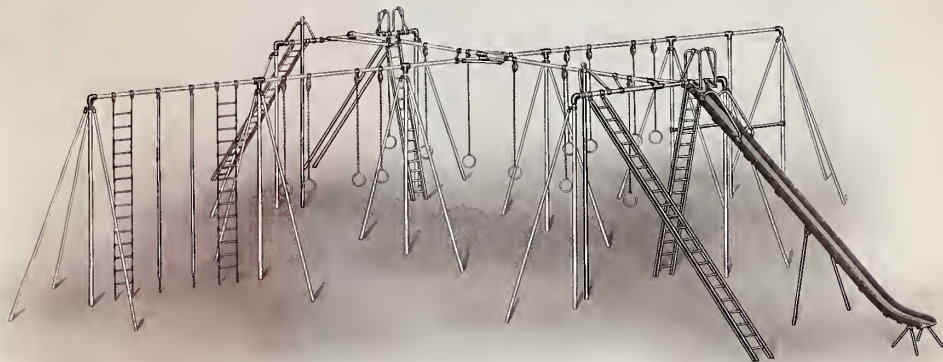
OUTFIT X-1540 A desirable addition may be made to above outfit by adding four Formed Steel Teeter Ladders and pipe fittings, as shown on page 30. These ladders should be placed two on each side of the transverse center section. Such additions would change above specifications as follows:

ADD: 2 F-12 Double Brace Clamps; 2 F-22 Tee Clamps; 2 F-2 Elbows; 2 F-33 Base Flanges; 2 F-28 Crown Plates. Add to pipe specifications: 2 pieces 3-in. pipe, 8 feet long, no threads; 2 pieces 3-in. pipe, 8 feet long, no threads, drilled to sketch.

OMIT: 2 F-47 Triple Brace Clamps; 2 F-32 Base Flanges. Omit from pipe specifications: 2 pieces 2-in. pipe, each 20 feet long, threaded one end.

No. X-1540. Complete except pipe, \$600.00, covering changes above noted. Price f.o.b. Chicopee, Mass., and subject to discount.  
Shipping Weight (Apparatus and Fittings), 3,000 lbs.

Construction plans in detail supplied with each outfit.



ALL-STEEL GYMNASIUM OUTFIT X-1510

DIMENSIONS AT TOP: . . . 40 FEET LONG x 75 FEET WIDE  
DIMENSIONS AT GROUND: 63 FEET LONG x 69 FEET WIDE

OUTFIT X-1510 offers a fairly complete assortment of desirable apparatus, grouped to the best possible advantage, and presents as a whole an outfit especially designed for a boys' public playground. An opportunity is provided for all varieties of the most popular forms of exercise, and the number of pieces is sufficient to suitably accommodate the attendance in playgrounds of the smaller municipalities. See pages 5 and 51.

## SPECIFICATIONS

### APPARATUS.

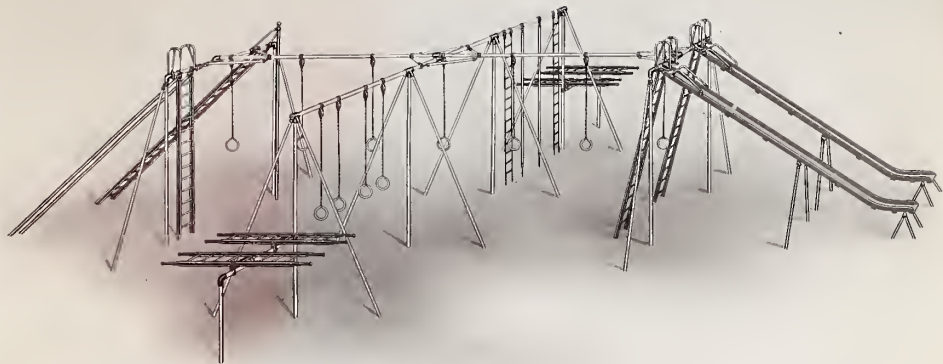
### FITTINGS.

- |   |  |
|---|--|
| <p>1 Long Steel-Lined Chute.</p> <p>1 Formed Steel Vertical Ladder.</p> <p>1 Pair No. A. H. Guard Rails.<br/>Combination A. See page 28.</p> <p>1 Pair Formed Steel Incline Poles.</p> <p>1 Formed Steel Vertical Ladder.</p> <p>1 Pair No. A. H. Guard Rails.<br/>Combination B. See page 26.</p> <p>2 Formed Steel Inclined Ladders.</p> <p>2 Formed Steel Vertical Sliding Poles.</p> <p>2 Pairs No. I. H. Guard Rails.<br/>Combination C. See page 26.</p> <p>2 Drop Forged Steel Flexible Ladders with Anchors.</p> <p>2 Formed Steel Climbing Poles with Anchors.</p> <p>4 Pairs Ball Bearing Aluminum Flying Rings.</p> <p>1 Set of Six Ball Bearing Aluminum Traveling Rings.</p> <p>2 Steel Horizontal Bars.</p> | <p>2 F-5 End Runs for Traveling Rings.</p> <p>1 F-6 Center Run for Traveling Rings.</p> <p>5 F-1 Single Tees, 3 in. x 3 in.</p> <p>6 F-2 Single Elbows, 3 in. x 3 in.</p> <p>4 F-11 Brace Clamps with straight plugs.</p> <p>4 F-12 Brace Clamps with straight plugs.</p> <p>2 F-47 Brace Clamps with straight plugs.</p> <p>4 F-11 Brace Clamps with offset plugs.</p> <p>6 F-12 Brace Clamps with offset plugs.</p> <p>18 F-32 Base Flanges for 2-inch Uprights.</p> <p>11 F-33 Base Flanges for 3-inch Uprights.</p> <p>11 F-28 Crown Plates for 3-inch Uprights.</p> |
|---|--|

No. X-1510. Height, 16 feet. Complete except pipe, **\$585.00**. Price f.o.b. Chicopee, Mass., and subject to discount. Shipping Weight (Apparatus and Fittings), 3,100 lbs.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 20 feet long, no threads; 7 pieces 3-in. pipe, each 15 feet long, no threads; 11 pieces 3-in. pipe, each 19 feet long, no threads; 18 pieces 2-in. pipe, each 20 feet long, threaded one end; 4 pieces 2-in. pipe, each 5 feet long, threaded both ends; 4 pieces 2-in. pipe, each 3 feet 4 inches long, threaded both ends.

Construction plans in detail supplied with each outfit.



ALL-STEEL GYMNASIUM OUTFIT X-1650

DIMENSIONS AT TOP: . . . 40 FEET LONG x 61 FEET WIDE  
DIMENSIONS AT GROUND: 82 FEET LONG x 61 FEET WIDE

OUTFIT X-1650 for girls is designed to complement Outfits X-1500, X-1510 and X-1540 for boys. The assortment of apparatus is based on experience that has demonstrated the popularity of its use, and for the smaller cities we recommend this type as ideal. See pages 5 and 51.

## SPECIFICATIONS

APPARATUS	FITTINGS
2 Long Steel-Lined Chutes.	2 F-5 End Runs for Traveling Rings.
2 Formed Steel Vertical Ladders.	1 F-6 Center Run for Traveling Rings.
2 Pairs No. A. H. Guard Rails.	4 F-9 Combination Fittings.
Combination A. See page 28	4 F-14 Single Elbows, 2 in. x 3 in.
1 Pair Formed Steel Inclined Poles.	2 F-2 Single Elbows, 3 in. x 3 in.
1 Formed Steel Vertical Ladder.	2 F-23 Tee Clamps, 2 in. x 3 in.
1 Pair No. A. H. Guard Rails.	4 F-46 Brace Clamps with straight plugs.
Combination B. See page 26	4 F-11 Brace Clamps with offset plugs.
1 Formed Steel Inclined Ladder.	6 F-12 Brace Clamps with offset plugs.
1 Formed Steel Vertical Sliding Pole.	20 F-32 Base Flanges for 2-inch Braces.
1 Pair No. I. H. Guard Rails.	2 F-33 Base Flanges for 3-inch Uprights.
Combination C. See page 26	2 F-36 Plugs for 3-inch Pipe.
2 Drop Forged Steel Flexible Ladders with Anchors.	2 F-28 Crown Plates for 3-inch Uprights.
2 Formed Steel Climbing Poles with Anchors.	8 F-30 Crown Plates for 2-inch Uprights.
2 Pairs Ball Bearing Aluminum Flying Rings.	
1 Set of Seven Ball Bearing Aluminum Traveling Rings.	
4 Formed Steel Teeter Ladders.	

No. X-1650. Height, 14 feet. Complete except pipe, **\$725.00.** Price f.o.b. Chicopee, Mass., and subject to discount.  
Shipping Weight (Apparatus and Fittings), 3,500 lbs.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 20 ft. long, no threads; 3 pieces 3-in. pipe, each 15 ft. long, no threads; 2 pieces 3-in. pipe, each 15 ft. 6 in. long, no threads; 2 pieces 3-in. pipe, each 8 ft. long, no threads; 2 pieces 3-in. pipe, each 8 ft. long, no threads, drilled to sketch; 8 pieces 2-in. pipe, each 17 ft. long, no threads; 8 pieces 2-in. pipe, each 18 ft. long, no threads; 4 pieces 2-in. pipe, each 17 ft. 6 in. long, threaded one end; 4 pieces 2-in. pipe, each 5 ft. long, threaded both ends; 4 pieces 2-in. pipe, each 3 ft. 4 in. long, threaded both ends.

Construction plans in detail supplied with each outfit.



ALL-STEEL GYMNASIUM OUTFIT XX-1700

DIMENSIONS AT TOP: . . . 40 FEET LONG x 90 FEET WIDE  
 DIMENSIONS AT GROUND: 94 FEET LONG x 104 FEET WIDE



OUTFIT XX-1700 was originally designed as the result of a demand for a combination frame—that is, one for boys and girls. The purpose was not ideal, but necessity imposed the makeshift. Since then we have adopted the design as particularly appropriate in playgrounds not sufficiently crowded to warrant further duplication of climbing and sliding combinations, but desirous of two lines of Traveling Rings. This piece of apparatus is one of the most popular, and desirable because the exercise is progressive. The Rings, suspended side by side in parallel lines, as shown, offer opportunity for competitive work, relay races, etc.; also provide means of utilizing two sets of Rings at different heights. The arrangement is altogether commendable. See pages 5 and 51.

## SPECIFICATIONS

### APPARATUS

- 2 Long Steel-Lined Chutes.
- 2 Formed Steel Vertical Ladders.
- 2 Pairs No. A. H. Guard Rails.  
Combination A. See page 28
- 2 Pairs Formed Steel Inclined Poles.
- 2 Formed Steel Vertical Ladders.
- 2 Pairs No. A. H. Guard Rails.  
Combination B. See page 26
- 2 Drop Forged Steel Flexible Ladders with Anchors.
- 2 Formed Steel Climbing Poles with Anchors.
- 2 Sets of Six each Ball Bearing Aluminum Traveling Rings.
- 3 Pairs Ball Bearing Aluminum Flying Rings.
- 1 Ball Bearing Steel Trapeze.
- 2 Steel Horizontal Bars.

### FITTINGS

- 4 F-5 End Runs for Traveling Rings.
- 2 F-6 Center Runs for Traveling Rings.
- 8 F-1 Single Tees, 3 in. x 3 in.
- 6 F-2 Single Elbows, 3 in. x 3 in.
- 6 F-11 Brace Clamps with straight plugs.
- 5 F-12 Brace Clamps with straight plugs.
- 2 F-47 Brace Clamps with straight plugs.
- 8 F-11 Brace Clamps with offset plugs.
- 12 F-12 Brace Clamps with offset plugs.
- 22 F-32 Base Flanges for 2-inch Braces.
- 14 F-33 Base Flanges for 3-inch Uprights.
- 14 F-28 Crown Plates for 3-inch Uprights.

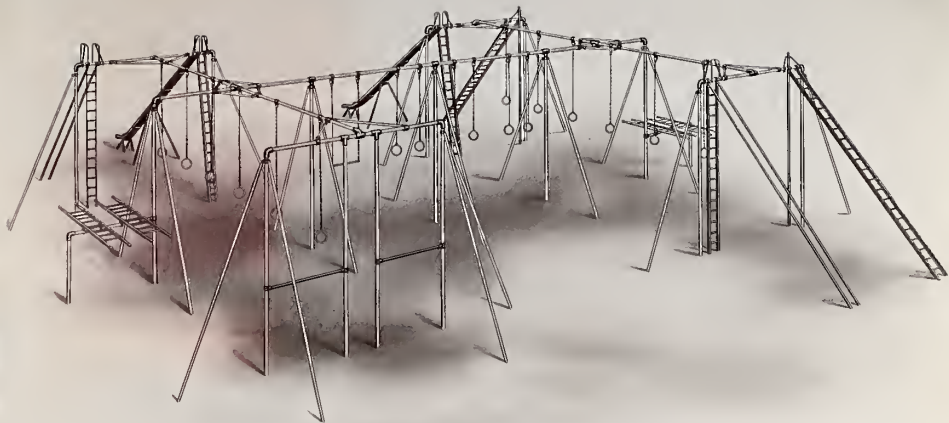
No. XX-1700. Height, 16 feet. Complete except pipe, \$760.00.

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight (Apparatus and Fittings), 3,900 lbs.

PIPE REQUIRED: 4 pieces 3-in. pipe, each 20 feet long, no threads; 10 pieces 3-in. pipe, each 15 feet long, no threads; 14 pieces 3-in. pipe, each 19 feet long, no threads; 22 pieces 2-in. pipe, each 20 feet long, threaded one end; 8 pieces 2-in. pipe, each 5 feet long, threaded both ends; 8 pieces 2-inch pipe, each 3 feet 4 inches long, threaded both ends.

Construction plans in detail supplied with each outfit.



ALL-STEEL GYMNASIUM OUTFIT XX-2040

DIMENSIONS AT TOP: . . . 40 FEET LONG x 78 FEET WIDE  
DIMENSIONS AT GROUND: 83 FEET LONG x 78 FEET WIDE

OUTFIT XX-2040 for boys offers an outdoor gymnasium of a very complete type, with a slight rearrangement and change of apparatus to those of similar class previously shown. The choice between types may rest upon individual preference in the matter of details. This frame, however, might be adaptable to combination use—that is, for boys and girls— if necessity demanded, somewhat better than those specially listed for their respective sex. One-half of the frame could be dropped to a 14 foot height. See pages 5 and 51.

# SPECIFICATIONS

## APPARATUS

- 2 Long Steel-Lined Chutes
- 2 Formed Steel Vertical Ladders.
- 2 Pairs No. A. H. Guard Rails.  
Combination A. See page 28
- 1 Pair Formed Steel Inclined Poles.
- 1 Formed Steel Vertical Ladder.
- 1 Pair No. A. H. Guard Rails.  
Combination B. See page 26
- 2 Formed Steel Inclined Ladders.
- 2 Formed Steel Vertical Sliding Poles.
- 2 Pairs No. I. H. Guard Rails.  
Combination C. See page 26
- 1 Pair Formed Steel Inclined Poles.
- 1 Drop Forged Steel Flexible Ladder.
- 1 Pair No. A. H. Guard Rails.
- 3 Pairs Ball Bearing Aluminum Flying Rings.
- 2 Sets of Six each Ball Bearing Aluminum Traveling Rings.
- 1 Ball Bearing Steel Trapeze.
- 4 Formed Steel Teeter Ladders.
- 2 Steel Horizontal Bars.

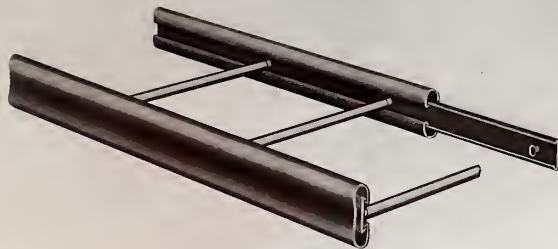
## FITTINGS

- 4 F-5 End Runs for Traveling Rings.
- 2 F-6 Center Runs for Traveling Rings.
- 5 F-1 Single Tees, 3 in. x 3 in.
- 12 F-2 Single Elbows, 3 in. x 3 in.
- 2 F-22 Tee Clamps, 3 in. x 3 in.
- 6 F-11 Brace Clamps with straight plugs.
- 5 F-12 Brace Clamps with straight plugs.
- 2 F-47 Brace Clamps with straight plugs.
- 8 F-11 Brace Clamps with offset plugs.
- 12 F-12 Brace Clamps with offset plugs.
- 20 F-32 Base Flanges, for 2-in. Braces.
- 17 F-33 Base Flanges, for 3-in. Uprights.
- 17 F-28 Crown Plates, for 3-in. Uprights.

No. XX-2040. Height, 16 feet. Complete except pipe, \$930.00. Price f.o.b. Chicopee, Mass., and subject to discount.  
Shipping Weight (Apparatus and Fittings), 4,700 lbs.

PIPE REQUIRED: 4 pieces 3-in. pipe, each 20 feet long, no threads; 6 pieces 3-in. pipe, each 16 feet long, no threads; 2 pieces 3-in. pipe, each 15 feet long, no threads; 15 pieces 3-in. pipe, each 19 feet long, no threads; 2 pieces 3-in. pipe, each 8 feet long, no threads; 2 pieces 3-in. pipe, each 8 feet long, no threads, drilled to sketch; 20 pieces 2-in. pipe, each 20 feet long, threaded one end; 6 pieces 2-in. pipe, each 5 feet long, threaded both ends; 6 pieces 2-in. pipe, each 3 feet 4 inches long, threaded both ends.

Construction plans in detail supplied with each outfit.



Detail showing construction of Spalding All-Steel Ladder—Patented Jan. 5th, 1909

It was early demonstrated to us that wooden apparatus, particularly ladders and poles in their various combinations, were unfit for playground use. Lack of durability in use and through climatic conditions, as well as the dangerous condition of such worn-out material, emphasized the necessity of improvement. At a very considerable expense, and after much experimenting, we have succeeded in perfecting a line of steel apparatus that supplies all the needed elements of a playground equipment. Judging from the way in which it has been received, we feel that we may justly claim it superior to anything of its kind. It is weather-proof, splinter-proof, and, as nearly as the assertion may be made of material things, time-proof. All apparatus is finished complete in a hot galvanizing tank. Every seam, crevice and joint is closed with molten metal. Inside and out it is absolutely rust-proof. It has a smooth exterior surface, no bolt-heads, rivets or clamps protruding, nor are there any in its construction. Made from smooth, cold-drawn sheet steel, properly shaped in special dies, it will be found in a class by itself—Strong, Safe, Serviceable. This apparatus, after four seasons' trial in the principal cities of the country, bears their unqualified endorsement.



Detail of Ground Anchor and method of attaching

Our improved method of attaching the apparatus at the ground, instead of grouting in cement as heretofore, permits convenient removal during winter months, and if, in the course of time, re-galvanizing becomes necessary, it may be done locally at the minimum expense.

The anchors are heavy iron castings with a broad base and should be firmly grouted in cement. The top of the cement should be slightly crowned and extend as close to point of attachment as bolt head and nut will permit.

## CLIMBING AND SLIDING COMBINATIONS

We illustrate on these pages several different forms of climbing and sliding combinations. Apparatus of this class is of the most popular type. It satisfies an instinct for getting up in the air and fast motion. It admits of endless forms of fun. Exercises of great variety and benefit, promoting courage and ability to handle one's self, result from its use. As a combination for playground purposes its advantages are manifold. It accommodates a crowd and keeps it in constant motion, one making way for another. It changes square foot space to cubic foot space, and is excellently adapted for small grounds and congested conditions. It accomplishes the dual purpose of providing entertainment and exercise for the children and also braces the framework for other apparatus. It promotes inventive qualities for all sorts of games of tag, follow-the-leader, etc., as well as offering opportunities for team and relay races. For best results as many varieties should be provided as conditions permit. Equally adaptable to either girls' or boys' playgrounds.

Vertical Ladders are *slightly inclined* to keep the child over the center of gravity in the vertical climb, with the body in a natural position. This arrangement makes the ascent easier and safer, particularly with the smaller children.

The guard rails at the top are made in two different styles, as shown, affording safe passage across the frame before getting ready for the descent.

For this class of apparatus nothing is better than our Formed Steel Ladders and Poles, assembled without the use of rivets or bolts, and presenting surfaces perfectly clear of sharp edges and projections. Safest and most durable, therefore most economical. All apparatus and fittings *heavily galvanized* by the hot process. See page 24.

No. X-214. Formed Steel Inclined Ladder, 14-ft. Frame. Each,	<b>\$40.00</b>
No. X-216. Formed Steel Inclined Ladder, 16-ft. Frame. "	<b>40.00</b>
No. X-314. Formed Steel Vertical Ladder, 14-ft. Frame. "	<b>32.00</b>
No. X-316. Formed Steel Vertical Ladder, 16-ft. Frame. "	<b>32.00</b>
No. X-414. Formed Steel Inclined Poles, 14-ft. Frame. Pair,	<b>25.00</b>
No. X-416. Formed Steel Inclined Poles, 16-ft. Frame. "	<b>25.00</b>
No. X-514. Formed Steel Vertical Sliding Pole, 14-ft. Frame. Each,	<b>10.00</b>
No. X-516. Formed Steel Vertical Sliding Pole, 16-ft. Frame. "	<b>10.00</b>
No. X-30. Long Steel-Lined Chute. . . . .	<b>100.00</b>
No. I. H. Guard Rails for Vertical Pole. . . . . Set,	<b>7.50</b>
No. A. H. Guard Rails for Inclined Poles. . . . .	<b>10.00</b>

See pages 24, 26, 27, 28, for details.

Prices quoted include necessary clamps and ground sockets.

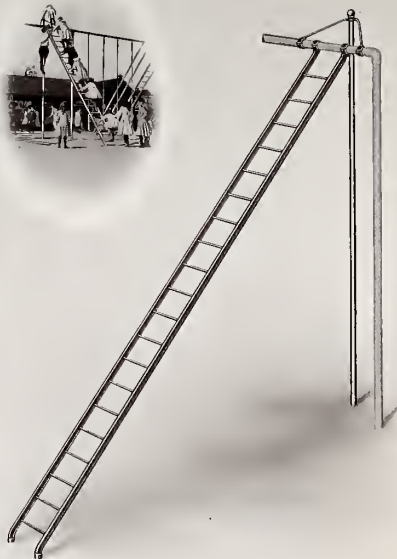
All prices f.o.b. Chicopee, Mass., and subject to discount.

## SHIPPING WEIGHTS

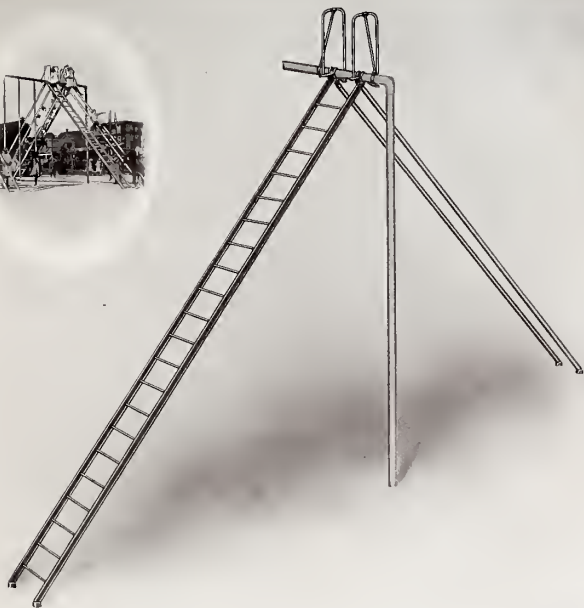
Steel Ladders . . . . .	7 lbs. to foot
Vertical Pole . . . . .	3 lbs. to foot
Inclined Poles, pair . . . . .	6 lbs. to foot
No. X-30 Steel-Lined Chute . . . . .	750 lbs.
No. A. H. Guard Rails . . . . .	50 lbs.
No. I. H. Guard Rails . . . . .	30 lbs.



COMBINATION-B



COMBINATION-C



To provide a slide or "chute" for older children, and thereby satisfy those who at times usurp the rights of the younger by monopolizing their favorite piece of apparatus, we have designed Combination A. This is a modification of children's slide shown on page 44, but is thirty feet long, and arranged to attach to the gymnasium frame. This gives height to conform to the increased length and adds sufficiently to the speed to make it a more attractive slide for the older children. It is unquestionably a valuable addition to an outfit.

The bedway is made up in two sections, the main section being twenty-four feet long and covered with formed steel pieces running the full length without break. The retarding table, also steel covered, is six feet long, and is designed to gradually reduce the speed at the end of the trip and let the child finish in a standing position.

The framework is substantially made of selected wood, oil finished. The sides are *extra deep*, to insure safety in descent, further protection being given by the guard rails at the top. There is a malleable iron apron extending from the top pipe to the bedway, to facilitate the seating operation and to take the wear of the heels striking at this point.

#### Combination A consists of:

- |                                     |                 |
|-------------------------------------|-----------------|
| 1 Long Steel-Lined Chute, No. X-30. | <b>\$100.00</b> |
| 1 Formed Steel Vertical Ladder.     | <b>32.00</b>    |
| 1 Pair No. A. H. Guard Rails.       | <b>10.00</b>    |

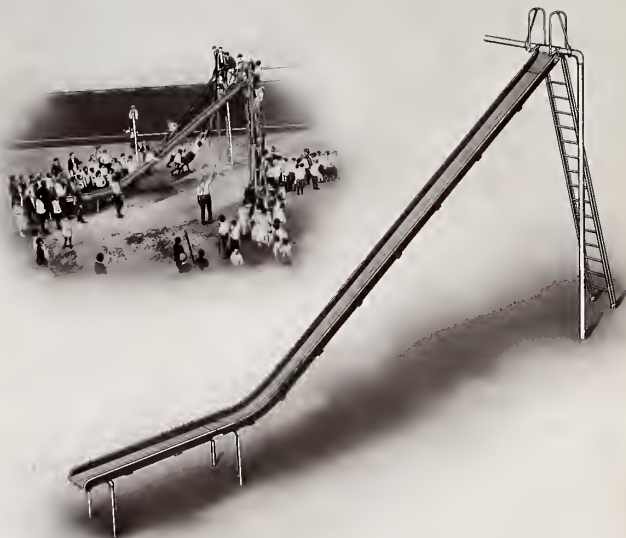
**Total, \$142.00**

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight:

Chute, 750 lbs.; Ladder, 140 lbs.; Guard Rails, 50 lbs.

Pipe fittings and pipe shown represent a part of the main frame and are not included.



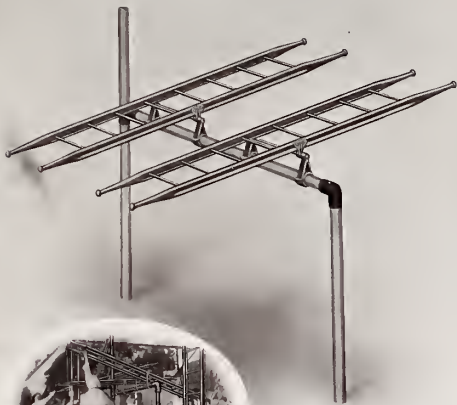




**HORIZONTAL LADDER** We recommend the method of treating the Horizontal Ladder as a separate piece of apparatus and not suspended from the gymnasium frame. The cut illustrates our All-Steel Ladder, mounted upon tubular uprights grouted three feet in the ground. Three rungs are inserted between uprights, which place the Ladder within reach of all. All forms of hanging work are both natural and beneficial to children. The Ladder shown is 16 feet long and set 7 feet 6 inches above ground. All parts are galvanized.

No. X-907. Horizontal Ladder. Complete, **\$60.00**

Price f.o.b. Chicopee, Mass., and subject to discount. Shipping weight, 250 lbs.

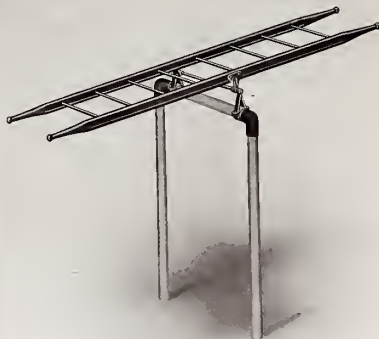


This picture illustrates the method of connecting a Teeter Ladder extension to a high frame. The Teeter Ladders, either single or double, are, however, generally used on a separate frame, the following fittings being required:

2 F-2 Single Elbows	- - at \$3.50	- - \$7.00
2 F-33 Base Flanges	- - .75	- - 1.50
2 F-28 Crown Plates	- - .50	- - 1.00

Complete Set of Fittings, **\$9.50**

Prices f.o.b. Chicopee, Mass., and subject to discount. Shipping weight, 100 lbs.



**TEETER LADDERS** are greatly abused pieces of apparatus. They demonstrate the effectiveness and economy of our all-steel construction. Physiologically they are excellent exercisers for growing children, and this is enhanced by the pleasure of use. Where two ladders are used, one may be mounted on top of pipe and the fittings reversed for the other, hanging it under the pipe. This gives a height variation of approximately one foot.

**No. X-87. Teeter Ladder only, with clamps for 3-in. pipe. \$25.00**

Pipe and Fittings extra. Price f.o.b. Chicopee, Mass., subject to discount.

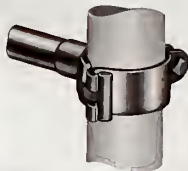
Shipping Weight, 65 lbs.

#### PIPE SPECIFICATIONS

Standard Galvanized Steel Pipe to be bought locally.

**SINGLE TEETER LADDER FRAME:** 1 piece 3-inch pipe, 4 feet long, no threads; 2 pieces 3-inch pipe, each 8 feet long, no threads, drilled to sketch.

**DOUBLE TEETER LADDER FRAME:** 1 piece 3-inch pipe, 8 feet long, no threads; 2 pieces 3-inch pipe, each 8 feet long, no threads, drilled to sketch.



**STEEL HORIZONTAL BAR** Consists of two malleable clamp ends for 2-in. or 3-in. pipe and a steel bar  $1\frac{1}{8}$  in. diameter, 7 ft. 6 in. long on centers of uprights. Any length made to order. All parts are hot galvanized.

No. X-71. Horizontal Bar, with Clamps for 2-in. pipe. Each, **\$8.00**

No. X-72. Horizontal Bar, with Clamps for 3-in. pipe. " **8.00**

Price f.o.b. Chicopee, Mass., and subject to discount. Shipping Weight, 30 lbs.

**STEEL CLIMBING POLE** Made  $1\frac{1}{2}$  inches in diameter, of smoothly drawn cold-rolled steel, hot galvanized; suspended by malleable fittings, having a malleable eye plug in the lower end with chain-anchor to set in the ground as shown in detail. Experience has proven the necessity for the anchor.

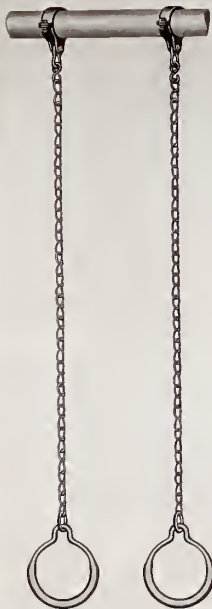
No. X-96. Climbing Pole, with Anchor. Each, **\$7.50**

Price f.o.b. Chicopee, Mass., and subject to discount. Shipping Weight, 25 lbs.

**STEEL FLEXIBLE LADDER** This ladder takes the place of the always unsatisfactory rope ladder. The rungs are metal tubing; connecting links *drop-forged*, and every part hot galvanized. It adds variety to the regular ladder work, is popular, and just as serviceable as the rigid steel ladders.

No. X-212. Flexible Ladder, with Anchors. Each, **\$20.00**

Price f.o.b. Chicopee, Mass., and subject to discount. Shipping Weight, 60 lbs.



Flying Rings



Detail of Steel Trapeze



Detail of Ball-Bearing Connection



Traveling Ring

## FLYING RINGS — TRAVELING RINGS — TRAPEZE

Aluminum for Flying and Traveling Rings offers advantages so pronounced, bulk without extreme weight, and permanent rust-proof qualities, that we have decided to use it exclusively.

The Ring consists of a steel forging covered with an aluminum jacket of the right size and shape, cast on. The exposed steel part is hot galvanized. We believe this will be found an ideal ring for out-of-door use and preferable to any other form. The *ball bearings* used as a frame connection are similar to those used on our swings, and a test of years has demonstrated their durability and safety.

The fittings are drop forgings hot galvanized, with case-hardened balls, ball race and stud bolts. The rings are suspended by machine-made chain, and the assembled apparatus is tested to many times its requisite degree of strength.

No. X-125. Aluminum Flying Rings. Pair, **\$10.00**

No. X-126. Aluminum Traveling Ring. Each, **5.00**  
Usually used in sets of six. See Outfit A-710 on page 6.

No. X-127. Ball Bearing Steel Trapeze. Each, **\$8.00**

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight: Flying Rings, per pair, 20 lbs.; Traveling Rings, each, 10 lbs.  
Steel Trapeze, 35 lbs.

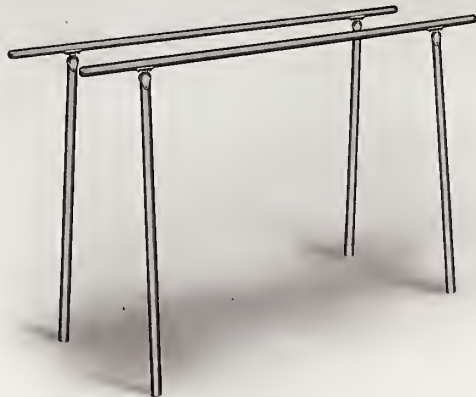


**JUMP STANDARDS** Uprights are tubular,  $2\frac{1}{4}$ -inch in diameter, and stand six feet above the surface and three feet in the ground. They are perforated to provide the varying adjustments. The pin, a unique device, consists of a sliding collar with a pin projection and a lug to engage the holes in the Upright.

No. X-119. Fixed Jump Standards, complete, **\$12.00**

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight, 80 lbs.



**ALL-STEEL PARALLEL BARS** Steel rails ten feet long, formed by special machinery to proper egg shape—offering best grip to hand—free from edges or broken surfaces, strongly bolted from inside to malleable iron sockets. Uprights are  $2\frac{1}{2}$ -in. wrought iron pipe, mounted on base flanges, set in ground three feet deep. All parts galvanized.

No. X-78. All-Steel Fixed Parallel Bars, **\$35.00**

Shipping Weight, 275 lbs.

**VAULTING STANDARDS** Made similar in construction to Jump Standards, only that the uprights are to stand 12 feet high above ground. Each upright is provided with a series of iron steps on the side that high adjustments may conveniently be made.

No. X-116. Fixed Vaulting Standard, complete, **\$25.00**

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight, 120 lbs.



**FIXED VAULTING HORSE AND BUCK** For playgrounds desiring fixed apparatus, the Horse and Buck illustrated will be found very satisfactory. Bodies are padded, covered with heavy No. 4 duck, having welted leather seams, and painted with two coats of special gutta percha paint. Bodies may be easily and quickly removed from uprights when desired.

No. X-1. Fixed Vaulting Horse. **\$40.00**

Shipping Weight, 200 lbs.

No. X-2. Fixed Vaulting Buck. **\$25.00**

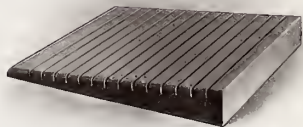
Shipping Weight, 105 lbs.

**JUMP BOARD** Substantially made, all parts screwed together. Top of board is slatted as shown, to allow dirt to sift through. Painted with three coats durable outdoor paint.

No. X-25. Jump Board. Each, **\$6.00**

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight, 30 lbs.



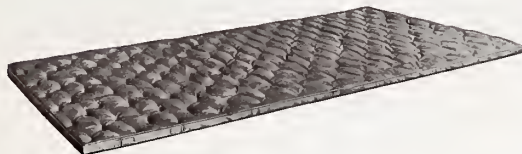


**INCLINE BOARD** Extra heavy and strongly put together. All parts *screwed* in place. Top slatted to permit dirt to sift through. Painted with three coats of outdoor paint.

No. X-28. Each, **\$10.00**

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight, 70 lbs.



**PLAYGROUND MATS** Made of two inch-thicknesses of best hair felt, covered with heavy duck. Covers are sewed on the inside with a lock stitch and then reversed, thereby eliminating the possibility of seams opening up because of stitches being worn or cut. Entire mat is *painted* with three coats of durable elastic gutta percha paint.

No. X-00. Size 3 x 5 feet by 2 inches thick. **\$10.50**

No. X-01. Size 4 x 6 feet by 2 inches thick. **16.80**

No. X-02. Size 5 x 6 feet by 2 inches thick. **21.00**

No. X-03. Size 5 x 10 feet by 2 inches thick. **35.00**

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight, 2 lbs. to square foot.

Special sizes of Playground Mats can be made to order at 70 cents per square foot.



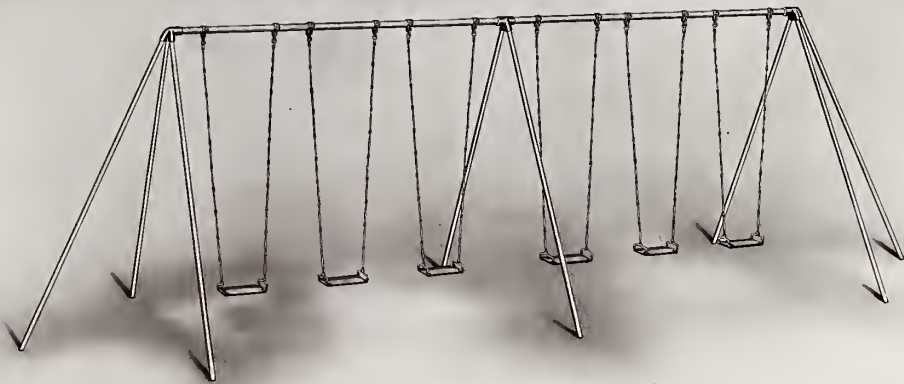
**SPRING BOARD** Made throughout of selected white ash. Painted with three coats of durable outdoor paint.

No. X-58. Each, **\$30.00**

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight, 110 lbs.





SWING OUTFIT J consists of six ball bearing, steel link Swings and malleable fittings to construct a frame 30 feet long and 12 feet high. Our combination end and center fittings provide the strongest, neatest and most economical construction possible. This outfit may be made up for nine and twelve Swings by adding additional bays.

No. J Swing Outfit, no pipe. **\$85.00**

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight (Six Swings and Frame Fittings Complete), 360 lbs.

Outfit comprises 6 No. X-S Ball Bearing Steel Link Swings; 2 No. F-53 End Fittings;  
1 No. F-52 Center Fitting; 8 No. F-32 Base Flanges.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 15 feet long, no threads; 8 pieces 2-in. pipe, each 16 feet long, no threads.



## SPALDING IMPROVED BALL BEARING STEEL LINK SWING

In days past a swing comprised a piece of rope tied to some conveniently-projecting limb, and, if luxurious, an old piece of board for a seat—and good fun it was, too. That swing, however, was not in constant use by one or two children from sunrise to sunset, and sometimes beyond that, as are many of our municipal playground swings. The modern playground needs something better adapted to its requirements—a perfect mechanical device designed to stand incessant wear under any and all conditions, with every precaution taken to insure the safety of the user.

Our new swing, with ball bearing *drop-forged* hangers, and *drop-forged* links in place of rope, will be found adequate to modern playground needs. Rope suspensions are good, but they stretch, and the swing hangs unevenly. The splices elongate and unravel through wear. Sometimes the ropes are maliciously cut. Chain suspensions are better in many respects, but harder on the hands. Our *drop-forged* links are twelve inches long, nicely shaped and rounded, giving a good, smooth grip, and, being forged hot from a *solid bar*, offer the strongest, safest construction possible.

*Each swing is thoroughly tested in a special machine to 2,000 lbs. tensile strain, which is many times the strain of actual use.*

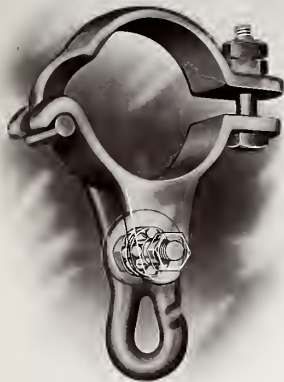
All metal parts of our swing are hot galvanized, and its various features make it unquestionably the best and, in the end, the cheapest obtainable.

No. X-S. Ball Bearing Steel Link Swing. Each, **\$10.50**

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight, each, 35 lbs.

For Prices of Ball Bearing Connections See Page 52.



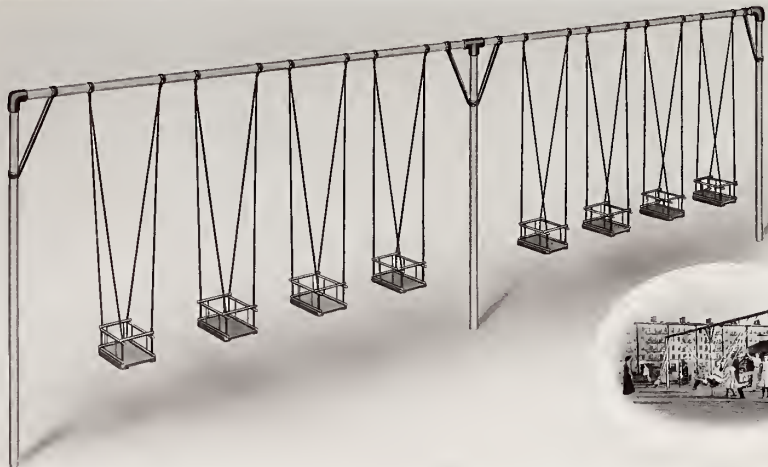
Detail of Drop-Forged Ball Bearing Connection



Detail of Swivel Joint Swing Seat



Thousands in use attest to its merits



**KINDERGARTEN SWING** Designed for the use of the smaller children of the playground. The Box Chairs are suspended from the four corners to insure steadiness, and have a sliding bar in front to hold child safely in the swing. The seat is twelve inches square, just large enough for a snug fit for children of the proper age, but unattractive to older children for whom it is not intended. The rope suspensions are smooth-braided bell cord of heavy weight, hung from malleable clamp fittings. A frame 30 feet long and 8 feet high above ground is required. The uprights should be grouted 3 feet in the ground.

No. JK. Kindergarten Swing Outfit, consisting of 8 Box Chair Swings and all frame fittings, no pipe. **\$50.00**

No. BX. Box Chair Swings only. Each, **\$3.50**

Prices f.o.b. Chicopee, Mass., and subject to discount. Shipping Weight, Single Swing, 25 lbs.; Eight Swings and Fittings, 250 lbs.

PIPE REQUIRED: 2 pieces 3-in. pipe, each 15 feet long, no threads; 3 pieces 3-in. pipe, each 11 feet long, no threads.

NOTE—Hammock Swings shown on page 41 can be substituted for Box Chairs if desired.

## SPALDING "SELF-SWING"

U. S. Patent Applied For.  
Patented in Canada April 13th, 1912.

A new member of the swing family makes its debut herewith. Possessing several unique features of value, we place it on the market for the judgment of the public in full confidence that it will find many friends.

The seat is of the box chair pattern—safe and sane. Strong webbing encircles the body of the child, affording a yielding support, securely anchored to the wire suspensions by metal clips and providing a sliding front strap for ease of entrance and exit. The hangings are metal, all parts hot galvanized. Malleable head-pieces and drop-forged ball-bearing connections insure the durable service that becomes a recognized part of Spalding Apparatus.

When the child is seated in the swing, the hands are raised above the head (an excellent exercising position), and by grasping the handles of the cross bar and pulling downward the swing is propelled forward. The bar slides with the movement of the Swing, keeping the arms in motion, strengthening and developing the upper muscles (without straining), and making the child independent for its pleasure. Heretofore the small youngster needed a helper to keep him amused.

Designed for children of 4 to 8 years of age.

The Spalding "Self-Swing" Outfit consists of eight swings and all fittings necessary for a frame as shown on page 38.

No. JKS. Complete except pipe, **\$85.00.** Swings only, each, **\$8.00**

Price f.o.b. Chicopee, Mass., and subject to discount.

Shipping weight Outfit JKS, 450 lbs. Shipping weight, each 50 lbs.

PIPE REQUIRED: 2 pieces 3-inch pipe, each 15 feet long, no threads; 3 pieces 3-inch pipe, each 11 feet long, no threads.

## IMPROVED ROCK-A-BYE SWING

This Swing has undergone many improvements. Playground tests developed the need of greater strength and durability, which have been adequately supplied in this, our latest model.

Heavy roller bearings are used on uprights and braces at both ends of hangers. All parts case hardened and the best construction prevails throughout.

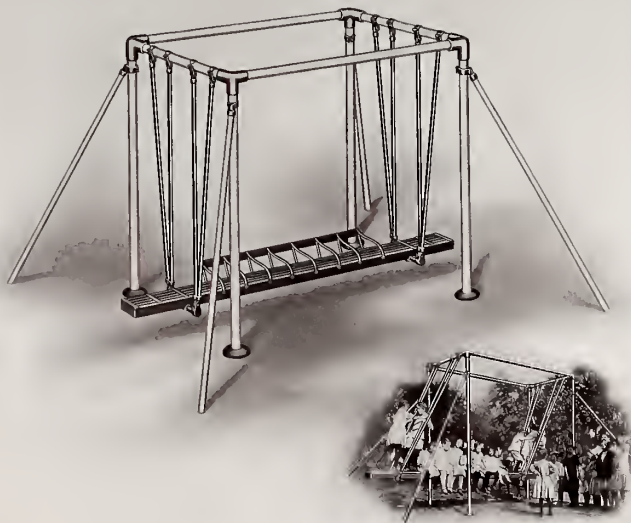
A "little mother" stands at one end, or one at each end, and by holding the uprights and giving a rocking motion the swing is started. The swing travels in parallel planes, keeping the children on "even keel." The utility of a device of this kind for the care of seven young children by one attendant, who also has the fun of motion, will be apparent. The chair arms and back stays are malleable iron, galvanized; the seat and back rests are wood, painted. All fittings are malleable. The frame stands 9 feet above the surface and is grouted in the ground in cement to a depth of 3 feet.

No. RS. Rock-A-Bye Swing, including hangers and all Frame Fittings, but no pipe for frame. . **\$100.00**

Price f.o.b. Chicopee, Mass., and subject to discount.  
Shipping Weight, 750 lbs.

### PIPE REQUIRED:

4 pieces 3-in. pipe, each 12 feet long, no threads;  
2 pieces 3-in. pipe, each 10 feet long, no threads;  
2 pieces 3-in. pipe, each 7 feet long, no threads;  
4 pieces 2-in. pipe, each 13 feet long, threaded one end.





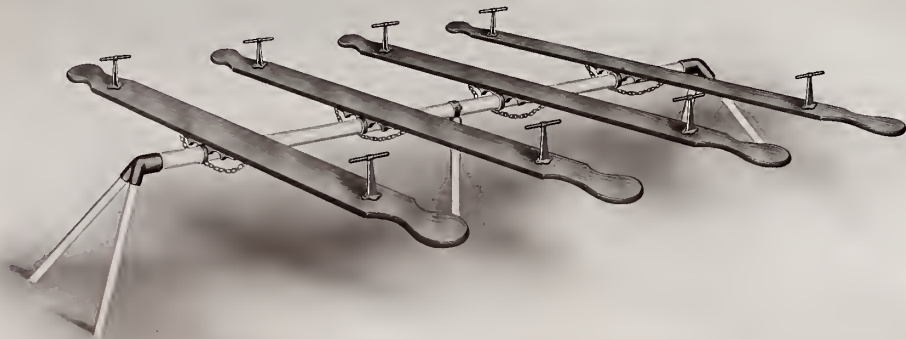
**BABY SWING OUTFIT** This "Baby Swing" is well adapted to hold infants. The hammock is suspended from the formed side arms and contains no hard supports that contact with the child's body. Mothers visiting playgrounds with young babies can provide rest for the baby as well as for self through the medium of this swing.

The hammock is made of strong canvas, properly shaped, suspended from its extreme corners, as shown, from iron hooks screwed into the frame. The frame is made of wood, strongly braced, and is portable. It may easily be moved to the shaded parts of the grounds.

No. K.	Baby Swing Outfit. . . . .	Complete, <b>\$25.00</b>
No. HK.	Single Hammock. . . . .	<b>3.50</b>

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight: Outfit K Complete, 100 lbs.; Single Hammock, 5 lbs.



SEE-SAW OUTFIT L consists of four 12-foot teeter boards made of extra heavy, clear, selected material, and fittings to make a strong pipe frame 16 feet long. The constant use which this type of apparatus receives in public playgrounds, the number of children that find a resting place on it at one time, is sufficient to warrant the best of everything in its general construction.

Boards cannot be detached from the pipe, but have means for shifting the point of fulcrum. The ends are nicely shaped, all corners and edges well rounded, and strong handles enable the child to firmly hold its seat and maintain an upright position.

No. L. See-Saw Outfit of Four Boards and Fittings, no pipe, **\$60.00.** No. LB. See-Saw Board, Complete. Each, **\$12.00**

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight: Outfit L, 460 lbs.; See-Saw Board only, 80 lbs.

PIPE REQUIRED: 1 piece 3-in. pipe, 16 feet long, no threads; 1 piece 3-in. pipe, 3 feet 6 inches long, no threads; 4 pieces 2-in. pipe, each 4 feet long, no threads.

NOTE.—For playgrounds in far distant points, where the item of freight would be very excessive, we will supply plans of the board, with full specifications, that these might be properly gotten out at a local mill. Prices of necessary hardware quoted on request.





**PORTABLE SEE-SAW** This See-Saw was originally designed for the Boston School Department, to use in schoolyard playgrounds, where it was desirable to remove the apparatus from time to time. It consists of an iron, bell-shaped casting, with a hinge-joint at the top and a clamping spider on the inside to fasten the three legs in place. The spider is adjusted by means of one central bolt, and all legs are fastened at the one operation. The legs are made of pipe, with round iron knobs on the ends. The axle-bearing is steel. The plate on the under side of the board is made wide and long to give broad contact, and is extra strong. The board is made of selected Oregon fir, 12 feet long, rounded ends and rounded corners.

No. PS. Portable See-Saw. Complete, **\$12.00**

Price f.o.b. Chicopee, Mass., and subject to discount. Shipping Weight, 90 lbs.





Detail showing iron step protectors and  
malleable hinged top plate.







## SPALDING SLIDES

All children relish the sensation of speed. Certain pieces of playground apparatus appeal most strongly in this direction, and such pieces are most magnetic in drawing children to them. The Slide is a prime favorite, and particularly to be commended for its capacity of accommodation and its ready adjustment to all sizes, ages and kinds.

Naturally much use and some abuse makes necessary the best of construction. Herein the Spalding Steel Slide excels. The bedway is lined with galvanized sheet steel its full length. No cross seams. The curve is properly proportioned to force a correct take-off without injury to the spine. Joints are closed so that malicious persons cannot drive glass, metal, slivers, etc., thro the bedway to cause hurt. A malleable iron apron takes the wear of the feet at the top. Corrugated iron treads protect the steps. The sides of ladder are *bolted through* to prevent spreading. The metal guard rails are made of 1-inch pipe, galvanized.

We now manufacture these slides in several styles: for small children, a larger size for older boys and girls, and long slides for attachment to pipe frames.

No. CS. 16-foot Slide, 8-foot stairs, complete, **\$60.00**

No. AS. 24-foot Slide, 12-foot stairs, complete, **\$100.00**

No. XA. Long Slide and retard table, with steps and guard rails. For attachment to pipe frame 14 feet high, **\$125.00**  
See pages 10 and 11.

No. A. Long Chute, Steel Ladder and Guards. For attachment to pipe frame 14 or 16 feet high, **\$142.00**  
See page 28.

Price f.o.b. Chicopee, Mass., and subject to discount. Shipping weights: No. CS Slide, 400 lbs., No. AS Slide, 800 lbs., No. XA Slide, 800 lbs., No. A Long Chute, etc., 950 lbs.



**GIANT STRIDE** The popularity of this piece of apparatus is its strongest endorsement. As a promoter of fun and as an exerciser it ranks among the select. The use of chain connections and our flexible *drop-forged* ladders makes it proof against the mishaps common to cheaper apparatus. The head-piece revolves on *ball bearings* and is mounted on an upright of 4-inch pipe. The upright stands twelve feet above ground and is grouted in cement to a depth of four feet.

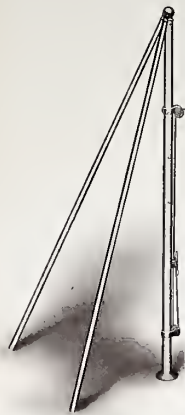
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| No. X-3. Giant Stride, complete with Six Ladders with pipe upright. . . . .  | <b>\$45.00</b> |
| No. X-4. Head and Six Ladders, and base flange without pipe upright. . . . . | <b>35.00</b>   |
| No. X-5. Head only. . . . .  | <b>15.00</b>   |

Prices f.o.b. Chicopee, Mass., and subject to discount.

Shipping Weight: Head only, 50 lbs.; Head piece and Six Ladders, 150 lbs.; Complete with pipe, 350 lbs.

**SPECIAL NOTE**—Owing to weight of 4-in. iron pipe, we recommend purchase of pipe locally when apparatus is to be shipped to distant points. Our fittings are easily applied without need of special machine work.

**SPECIFICATIONS:** 1 piece 4-in. galvanized steel pipe, 16 feet long, no threads.



### "NEWCOMB"

A GAME FOR THE GYMNASIUM AND PLAYGROUND

Copyrighted by Miss CLARA G. BAER, 1895-1911

This game, originally played at Newcomb College, Tulane University of Louisiana, New Orleans, was the result of an effort, on the part of the Director of Gymnastics, Miss CLARA G. BAER, to place before her students a game that could be easily arranged, could include any number of students, could be played in any designated time and in any available space.

This elasticity with regard to time, space, and number of players, makes the game particularly attractive to playgrounds, and the quality of the game itself insures its popularity. A set of rules with playing diagram is furnished with each outfit.

We have obtained from Miss Baer the exclusive right to manufacture and sell the game of Newcomb, and in the equipment illustrated we feel that all requirements have been met in the production of that which is called upon to stand the severest possible tests.

The rope is adjustably connected with the posts so that the varying adjustments called for under different ages of children can be secured, and this is perfected in a way that gives utmost convenience in handling, without loose or detachable parts.

There is nothing to get out of order. Permanency is assured. Posts and braces are wrought iron pipe, substantial and strong. All parts are hot galvanized.

The game may be played with the regulation Basket Ball.

**OUTDOOR NEWCOMB. Price, \$35.00**

Price f.o.b. Chicopee, Mass., and subject to discount.

Approximate Shipping Weight, 175 lbs.

*NOTE: We also manufacture a "Newcomb" Outfit for Indoor Gymnasium use.*

*The picture shown above was taken on the grounds of Tulane University, New Orleans, in January.*



**BASKET BALL BACKSTOPS—PERFORATED STEEL** In equipping some of the Chicago playgrounds, and in other places where we had a high wind to contend with, we adopted a perforated steel backstop. This gives the smooth surface of solid wood, as it is strongly framed, cuts down greatly the wind resistance, and is weatherproof. Wire mesh stretches out and is not satisfactory. Backstops are galvanized, goals black—a good target. Furnished complete with pair of Official Basket Ball Goals. The special flange we supply prevents turning of upright. *Two pieces of 3-inch galvanized steel pipe, 16 feet long, without threads, should be purchased locally.*

No. X-60. Basket Ball Backstops, Perforated Steel. Complete with goals and all fittings, no pipe. Pair, \$40.00  
Price f.o.b. Chicopee, Mass., and subject to discount. Shipping Weight, 200 lbs.

**BASKET BALL BACKSTOPS—WOODEN** To those desiring regulation wooden backstops, we can supply them with malleable clamps to fit 3-inch pipe uprights. These backstops are substantially made, with strong reinforcements on the back, furnished complete with pair of Official Basket Ball Goals. The special flange we supply prevents turning of upright in the cement. *Two pieces of 3-inch galvanized steel pipe, 16 feet long, without threads, should be purchased locally.*

No. X-160. Basket Ball Backstops, Wooden. Complete with goals and all fittings, no pipe. Pair, \$25.00  
Price f.o.b. Chicopee, Mass., and subject to discount. Shipping Weight, 150 lbs.

## CANVAS PLAYGROUND BALLS

PATENTED  
LIGHT—SOFT—SAFE

Economy is comparative. In permanent institutions economy exists only where you get the best and most durable service. Playgrounds are permanent; their games go on indefinitely. The application of the truism is obvious.

Our patented seam Canvas Playground Balls are the most durable balls for playground use. Canvas itself is durable, but without the patented tape binding it would not hold the stitchings. The exposed stitchings are similar to those in a regular ball and are there to hold the cover on during its manufacture. These are supplementary to the fundamental stitches that are concealed under the tape. These keep the ball from ripping long after the regular stitches have broken. In brief, this patented seam gives the wear of the regular ball plus the added life due to the hidden stitch.

The growing popularity of Medicine Ball games leads us to call particular attention to this article and emphasize its possibilities in the playground.

No. 2PC.	Medicine Ball, Medium weight.	Each, \$5.00	Net
No. 3PC.	Medicine Ball, Light weight.	" 4.00	Net
No. 9PC.	Base Ball ( 9 in.), Regular Base Ball size.	" 1.00	Net
No. 12PC.	Base Ball (12 in.), Official Playground size.	" 1.25	Net
No. 17PC.	Base Ball (17 in.), Indoor Base Ball size.	" 1.50	Net
No. VPC.	Volley Ball, Regulation size.	" 3.50	Net

## TETHER TENNIS AND VOLLEY BALL

Our Tether Tennis Pole and Volley Ball Posts for playground use are made of 2-inch galvanized iron pipe, and are to be set three feet in the ground.

No. TP.	Tether Tennis Pole, Galvanized.	Each, \$10.00
No. OPG.	Tether Ball and Cord.	" 1.00
No. 5.	Tether Ball Marking Ropes.	Set, 1.00
No. VP.	Volley Ball Posts, Galvanized.	Pair, 10.00
No. VN.	Volley Ball Nets, Tarred.	Each, 5.00





## THE FIGHTING DUMMY

Patented March 22, 1910;  
October 31, 1911

Here's a "fighter" that always "comes back"—you do not always know *how*—*that* trains the eye, mind and muscle, but he won't stay down unless you sit on him, and he'll give more exercise and fun than any other piece of gymnasium apparatus you've ever seen.

He consists of an inflated figure about man's size, covered with heavy brown canvas, mounted on a hidden steel frame, and fastened (removably) to a heavy bowl shaped iron base.

Many can gather around for fistic encounter, and all will be kept busy.

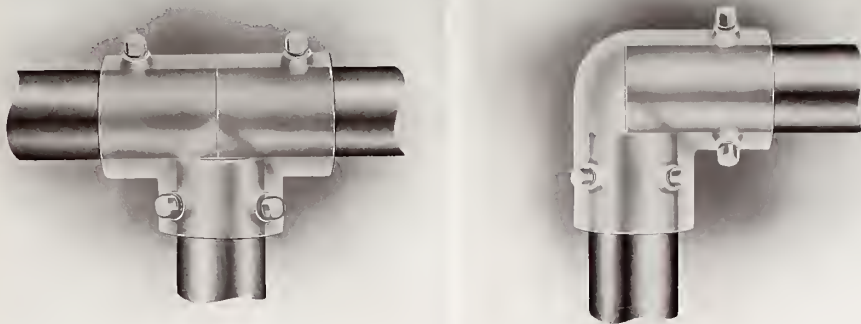
He's good.

No. D. Fighting Dummy. **\$50.00**

Price f.o.b. Chicopee, Mass.

Shipping Weight, 190 lbs.





**FITTINGS** Our Special Pipe Fittings are exceptionally strong and designed to permit ease of handling when assembling. We have used this style of fitting for twenty years with absolute success, and consider it, as a type, the best fitting for the purpose it is possible to adopt. Threaded connections, such as are used by pipe-fitters, are extremely difficult to handle, and their ultimate cost is greater in consequence. Slight variations in lengths of pipe mean trouble in squaring and plumbing the frame. Threads, not being protected with the galvanized finish, form pockets for rust. Crossed threads, jammed threads and similar annoyances spell increased expense of installation, eliminated in the use of our fittings. Figures prove their economy. We use one fitting for joints of various combinations, cutting the number of parts to the minimum and adding symmetry of design.

The Spalding Fitting is more of a *connection* than a *support*, being so designed that pipe supports pipe (see illustrations) and the fitting acts principally as a tie. This distributes the strain to the strongest part of the frame. There are no threaded joints. All pipe is held by clamp screws with rounded heads, free from sharp corners or edges, absolutely positive in their application.

NOTE—The Fittings shown are those most in demand. We have many others. Write us about your needs.



No. F-1. Single Tee, for 3-inch pipe. Each, **\$3.50**

No. F-3. Single Tee, for 3-inch top pipe, 2-inch pipe upright. Each, **\$3.25**



No. F-6. Center Run for Traveling Ring Pipe, 3-inch pipe. Each, **\$4.00**



No. F-9. Combination Center Fitting, 3-in. pipe beam, 2-inch pipe uprights. Each, **\$6.00**



No. F-2. Single Elbow, for 3-inch pipe. Each, **\$3.50**

No. F-14. Single Elbow, for 3-in. top pipe, 2-inch pipe upright. Each, **\$3.25**



No. F-5. End Run for Traveling Ring Pipe, 3-inch pipe. Each, **\$4.00**



No. F-32. Base Flange, for 2-inch pipe. Each, **60 cents**

No. F-33. Base Flange, for 3-inch pipe. Each, **75 cents**

No. F-34. Base Flange, for 4-inch pipe. Each, **\$1.50**



No. F-4. Double Elbow, for 3-inch pipe. . . . . Each, **\$4.00**



No. F-52. Center Spread Fitting for 3-in. pipe beam and 2-inch pipe uprights. . . . . Each, **\$6.00**



No. F-18. Ball Bearing Clamps for Flying Rings. . . . . Pair, **\$5.00**

No. F-19. Ball Bearing Clamp for Traveling Ring. . . . . Each, **\$2.50**

No. F-20. Ball Bearing, with Plate for attachment to wood. Each, **\$2.50**



No. F-22. Tee Clamp, 3-in. pipe clamp, 3-in. pipe outlet. . . . . Each, **\$3.50**

No. F-23. Tee Clamp, 2-in. pipe clamp, 3-in. pipe outlet. . . . . Each, **\$3.50**



No. F-53. End Spread Fitting for 3-in. pipe beam and 2-inch pipe uprights. Each, **\$6.00**



No. F-13. Heavy Pipe Clamp for Flexible Ladders, etc. . . . . Each, **\$1.00**

No. F-38. Light Pipe Clamp, for Box Chair Swings, etc. Each, **75 cents**

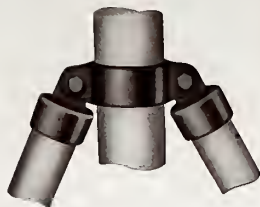




#### SINGLE BRACE CLAMP

Made to clamp 3-inch pipe upright and to receive a 2-inch brace connection.

No. F-11. Complete with one screw cap plug for 2-inch pipe brace. Each, **\$2.00**

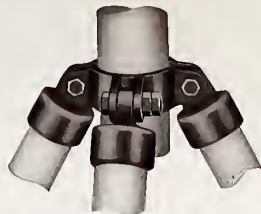


#### DOUBLE BRACE CLAMP

Made to clamp 3-inch pipe upright and to receive two 2-inch brace connections.

No. F-12. Complete with two screw cap plugs for 2-inch pipe brace. Each, **\$2.50**

No. F-46. Double Brace Clamp, similar to above, to clamp 2-inch pipe instead of 3-inch. . . . . Each, **\$2.50**



#### TRIPLE BRACE CLAMP

Made to clamp 3-inch pipe upright and to receive three 2-inch brace connections.

No. F-47. Complete with three screw cap plugs for 2-inch pipe brace. Each, **\$3.00**

No. F-45. Triple Brace Clamp, similar to above, to clamp 2-inch pipe instead of 3-inch. . . . . Each, **\$3.00**



#### CORNER BRACE

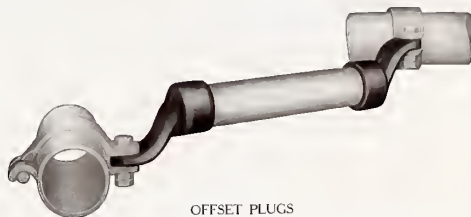
Under certain conditions it is desirable to brace or reinforce corner connections; for this purpose we have designed this fitting.

No. F-17. Corner Brace. Each, **\$3.00**



No. F-30. Crown Plate, for 2-inch pipe. Each, **40 cents**

No. F-28. Crown Plate, for 3-inch pipe. Each, **50 cents**



#### OFFSET PLUGS

Used to brace Traveling Ring pipe to cross pipes upon which it rests. The amount of offset is one-half the diameter of pipe. By turning one plug up and the other down the distance between pipe centers is equalized and permits the use of regular Brace Clamps F-11 and F-12 as shown above.

No. F-39. Offset Plugs. Pair, **\$1.00**



ZABRISKIE PLAYGROUND, JERSEY CITY, N. J.

OUTFITTED BY A. C. SPALDING & BROS., INC.  
CHICOPEE, MASS.



This group of pictures illustrates the use of special socket apparatus in school and municipal gymnasiums, where storage space for apparatus not in use is at a premium. It will be observed that the heavier pieces of apparatus are stored compactly on wall racks specially designed for them, with great saving of space. We are at all times glad to submit plans and specifications for interior equipments.

A special Catalog of Indoor Gymnasium Apparatus will be sent upon request.

# SPALDING ATHLETIC LIBRARY

BELOW ARE GIVEN THE TITLES OF ALL SPALDING ATHLETIC LIBRARY BOOKS NOW IN PRINT GROUPED FOR READY REFERENCE.  
SPALDING OFFICIAL ANNUALS

- No. 1 Spalding's Official Base Ball Guide  
No. 1A Spalding's Official Base Ball Record  
No. 1C Spalding's Official College Base Ball Annual  
No. 2 Spalding's Official Foot Ball Guide  
No. 2A Spalding's Official Soccer Foot Ball Guide  
No. 4 Spalding's Official Lawn Tennis Annual  
No. 6 Spalding's Official Ice Hockey Guide  
No. 7 Spalding's Official Basketball Guide  
No. 7A Spalding's Official Women's Basketball Guide  
No. 8 Spalding's Official Lacrosse Guide  
No. 9 Spalding's Official Indoor Base Ball Guide

## Group I. Base Ball

- No. 1 SPALDING'S OFFICIAL BASE BALL GUIDE  
No. 1A SPALDING'S OFFICIAL BASE BALL RECORD  
No. 1C SPALDING'S OFFICIAL COLLEGE BASE BALL ANNUAL  
No. 202 How to Play Base Ball  
No. 223 How to Bat  
No. 232 How to Run Bases  
No. 230 How to Pitch  
No. 229 How to Catch  
No. 225 How to Play First Base  
No. 226 How to Play Second Base  
No. 227 How to Play Third Base  
No. 228 How to Play Shortstop  
No. 224 How to Play the Outfield  
How to Organize a Base Ball League  
How to Organize a Base Ball Club  
No. 231 How to Manage a Team  
How to Train a Team  
How to Captain a Team  
How to Umpire a Game  
Technical Base Ball Terms

## Group I. Base Ball

- No. 219 Ready Reckoner of Base Ball Percentages  
No. 350 How to Score  
BASE BALL AUXILIARIES  
No. 355 Minor League Base Ball Guide  
No. 356 Official Book National League of Pro. Base Ball Clubs  
No. 340 Official Handbook National Playground Ball Assoc'n  
Group II. Foot Ball  
No. 2 SPALDING'S OFFICIAL FOOT BALL GUIDE  
No. 2A SPALDING'S OFFICIAL SOCCER GUIDE  
No. 286 How to Play Soccer  
No. 335 How to Play Rugby  
FOOT BALL AUXILIARY  
No. 351 Spalding's Official Rugby Foot Ball Guide

## Group IV. Lawn Tennis

- No. 4 SPALDING'S OFFICIAL LAWN TENNIS ANNL  
No. 157 How to Play Lawn Tennis

## Group VI. Hockey

- No. 6 SPALDING'S OFFICIAL ICE HOCKEY GUIDE  
No. 154 Field Hockey  
No. 180 Ring Hockey

## Group VII. Basketball

- No. 7 SPALDING'S OFFICIAL BASKET BALL GUIDE  
No. 7A SPALDING'S OFFICIAL BASKET BALL GUIDE FOR WOMEN  
No. 193 How to Play Basket Ball  
No. 353 Official Collegiate Basket Ball Handbook

## Group VIII. Lacrosse

- No. 8 SPALDING'S OFFICIAL LACROSSE GUIDE  
No. 201 How to Play Lacrosse

## Group IX. Indoor Base Ball

- No. 9 SPALDING'S OFFICIAL INDOOR BASE BALL GUIDE

## Group X. Polo

- No. 129 Water Polo  
No. 199 Equestrian Polo

## Group XI. Miscellaneous Games

- No. 248 Archery  
No. 138 Croquet  
No. 271 Roque  
No. 194 Racquets  
No. 13 Hand Ball  
No. 167 Quoits  
No. 170 Push Ball  
No. 14 Curling  
No. 207 Lawn Bowls

## Group XII. Miscellaneous Games

- No. 188 Lawn Hockey  
No. 189 Pull Hockey  
No. 341 Garden Hockey  
No. 189 Lawn Games  
No. 341 Children's Games  
No. 341 How to Bowl

## Group XII. Athletics

- No. 27 College Athletics  
No. 182 All Around Athletics  
No. 156 Athletics Primer  
No. 87 Athletic Pains  
No. 273 Olympic Games at Athens, 1906  
No. 252 How to Run 100 Yards  
No. 174 Distance and Cross Country Running  
No. 259 How to Become a Weight Lifter  
No. 55 Official Sporting Rules  
No. 246 Athletic Training for Schools  
No. 317 Marathon Running  
No. 331 Schoolyard Athletics  
No. 342 Walking for Health and Comfort

## ATHLETIC AUXILIARIES

- No. 357 Intercollegiate A. A. A. Official Handbook  
No. 302 Y.M.C.A. Official Handbook  
No. 313 Public School Athletic League Official Handbook  
No. 314 Girls' Athletics  
No. 308 Official Handbook New York Interscholastic Athletic Ass'n

## Group XIII. Athletic Accomplishments

- No. 177 How to Swim  
No. 296 Speed Swimming  
No. 128 How to Row  
No. 209 How to Become a Skater  
No. 178 How to Train for Bicycling  
No. 23 Canoeing  
No. 232 Roller Skating Guide

## Group XIV. Monly Sports

- No. 18 Fencing (By Breck)  
No. 165 Fencing (By Senac)  
No. 236 How to Wrestle  
No. 102 Ground Fumbling  
No. 143 Indian Clubs and Dumb Bells  
No. 262 Medicine Ball Exercises  
No. 29 Pully Weight Exercises  
No. 191 How to Punch the Bag  
No. 289 Tumbling for Amateurs

## Group XV. Gymnastics

- No. 104 Grading Gymnastic Exercises  
No. 214 Graded Calisthenics and Omb Bell Orils  
No. 254 Barnum Bar Bell Oril  
No. 158 Indoor and Outdoor Gymnastic Games  
No. 124 How to Become a Gymnast  
No. 287 Fancy Omb Bell and Marching Orils  
No. 327 Pyramid Building Without Apparatus  
No. 328 Exercises on the Parallel Bars  
No. 329 Pyramid Building with Wands, Chairs and Ladders  
GYMNASTIC AUXILIARY  
No. 345 Official Handbook I. C. A. A. Gymnasts of America

## Group XVI. Physical Culture

- No. 161 Ten Minutes' Exercise for Busy Men  
No. 208 Physical Education and Hygiene  
No. 149 Scientific Physical Training and Care of the Body  
No. 185 Hints on Health  
No. 213 285 Health Answers  
No. 288 Indigestion Treated by Gymnastic Building  
No. 234 School Tactics and Maze Running  
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